

ABSTRACT

The design of a thermistor maximizes the temperature sensitive effects of the semiconductive inks while minimizing or eliminating the force sensitive effects. The design provides for an integrated force and temperature sensor having reduced costs, improved sensitivity and reproducibility, and greater reliability. A thick film thermistor has (a) a pair of shaped electrical conductors deposited on a first support substrate; (b) a temperature sensitive ink layer deposited over the pair of electrical conductors so that the ink layer is coextensive with the pair of electrical conductors; and (c) a second support substrate bonded to the first support substrate.